

Shoreline Management Committee

12 July, 2016 Minutes

1. Agenda

Quick review of minutes & items from previous meeting below.

Quick review of items provided with agenda email.

- Economic Impact of Tourism, Florida

- NY Times article on Tangier Island

- NC Div of Coastal Management Coastal Erosion Study

Items from prior meeting.

- Shoreline Management webpage:

- Tourism impact, Dare County:

- DCM/CAMA website

- Long-Range: Artificial Reefs:

Quick report on the Sea Level Rise study.

Discussion of long-term and short-term projects and goals.

- Dr. Tim Kana & Dr. Haiching Kaczkowski, Coastal Science & Engineering, will be present.

2. Attendees

John Ratzenberger, Andy Garman, Cliff Ogburn, David Ryan, Anna Sadler, Ken Termini (speaker phone), Bill Magann, Bob Oakes, Jim Morris, Patrick McManus, Michael Pfaff, Perry White, Donny King, Randy Blanton.

CSE: Tim Kana PhD PG, Haiqing Kaczkowski PhD PE

3. Discussion

Email list verified; 5 names not present (has been since corrected).

CSE: presented a slide show which drove the discussion.

- Project schedule for 2018 replenishment

- Goal: To define a target beach condition for the future

- Current beach condition 2015

- What we measure

- Work progress and path forward for 2018

- Relationship to 30-year plan and target beach condition

CSE: Same baseline as previous years; it can be moved when no longer relevant/useful and all old data can be converted to new baseline for a constant frame of reference.

CSE: Nags Head was, in 2011, the guinea pig, took the risk, and with the success made it easier for all others for permitting, etc.

Bill McGann: advise dredging industry in 2017, get regulators on board early.

Ken Termini: sand on dunes and homeowner reaction.

CSE: Rate of dune growth has tapered off the last 2-3 years as dry beach has narrowed; we could see dune reduction. CSE underestimated sand growth; 1st time in these conditions & a project of this scope.

Donny King: do we have town data on vegetation and did we do enough

Patrick McManus: what is "normal", beach seems smaller than before ?

CSE: Current thought is now High Dunes + Wide Beaches = Less Damage

Ken Termini: Reinforce that thought, protection more important than view and gaps for convenience of home owners/guests.

CSE: FEMA likes dunes.

CSE: Before 2011, loss 1 cy/ft in dune, after 2011 gain of 4 cy/ft.

CSE: Dune height vs width

We had much discussion of dune height, base, shape, and location; beach width; the FEMA/Corps 540 Rule and the just what it might require to achieve a "540 Rule" beach if we even wanted/were able to.

Jim Morris: Reef balls to slow erosion, short & long term ?

CSE: Need a lot and high; probably legislative change -- will look at. (JR note: look at NCGA & DCM for artificial reef & reef balls for next time).

CSE: sand for a goal.

need 1.2 cy sand for each foot of width

factor erosion rate vs width to figure how wide to last how long.

Bill McGann: what about emergency stockpiles of sand, pre-approved borrow areas, soundside ?

CSE: hard to stockpile meaningful amount - 1 acre-foot (1 acre, 1 ft high) = only 1600 cy sand. Difficult problem locally, also to keep blowing sand loss and to keep clean.

Bill McGann: permitting time.

Bob Oakes: problem is SNH, not north.

CSE:

- Understand our process

- Understand what we need (data, etc)

- Tell us what conditions you want (width, dunes, vision)

- We will develop the steps to get there.

- Summer projects adjust quickly over the winter

Terminal "groin" at south end, NPS.

Analysing 2016 conditions (dunes slowed)

Scenarios:

Enough sand on beach to build dunes eastward to make up for houses, conditions in dune line ?

2014 CSE Report, houses in the dune line. At some point town may need to purchase and remove houses to get them out of the way.

What info does the committee need ?

Incremental gains over 30 years, steady growth ?

Other thoughts:

Borrow sand not infinite, need look for alternatives

Committee role in permitting ?

Meeting with Realtor & Restaurant Assoc for advance notice/planning/communication.

4. Closing:

John R: We want (a number of) people in the community to become experts on this and we will provide you all the information, education, and experience you want and we can over the next few years.

Next two meetings:

- August 9: Preliminary Options

 - Define the ideal beach conditions

 - Storm damage protection

 - Recreational beach

- September 12: Recommendations